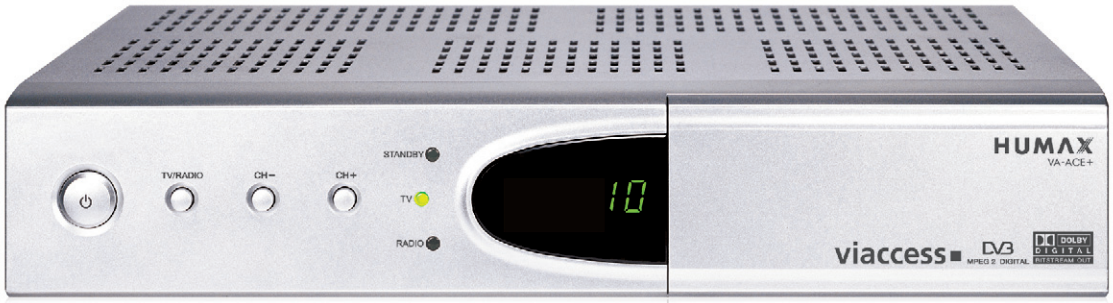
VA-ACE+ Digital Satellite Set-Top Box



From behind the scenes, HUMAX brings the whole world right to you.

Just keep your eyes on your TV set. Through digital technology, we will bring the whole world right to you. Enjoy the new era in digital broadcasting as we transmit the digital signals to your TV safely so you can watch in comfort. Even when your TV is off, HUMAX STB is always on standby. Waiting patiently for that moment when it will connect you with the world's delights again.

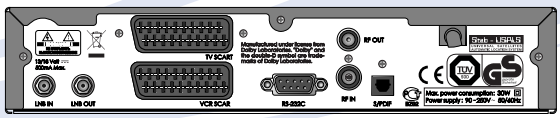
In addition to standard Free to Air broadcast access, this product enables viewers to watch pay programs scrambled by Viaccess encryption system through its embedded Viaccess Conditional Access System. A variety of program information is also available through its userfriendly EPG.

By installing the latest software with its built-in serial interface (RS-232C) and OTA (over-the-air) service, viewers can always enjoy high quality audiovisual programs.

- MPEG-2 Digital & Fully DVB Compliant.
- Capable of Descrambling Encrypted Programmes by Embedded VIACCESS™.
- SCPC & MCPC Receivable from C/Ku-Band.
- Max. 4000 channels (TV & RADIO Programmable).
- Capable of delivering Dolby Digital Stream to Dolby Digital Encoders through S/PDIF.
- Supports user friendly OSD and easy Main Menu.
- Electronic Programme Guide (EPG) & Information Plate.
- DiSEqC 1.0 and DiSEqC 1.2 are available.
- 16 Colors On-Screen Display (256 colors optional).
- Plug & Play Self Installing Programmes by Automatic Scanning.
- Supports Letterbox DVB Subtitle and DVB Teletext.
- Parental Control.
- Calendar and Biorhythm.
- Channel Switching Time less than 1 sec.
- OSD Languages (English, French, Russia, German, Romanian, Italian and Spanish).

VA-ACE+
Specification

Power Supply	
Input Voltage	AC 90~250, 50/60Hz
Type	Switching Mode Power Supply (SMPS)
Power Consumption	Max.30 W
	Stand-by: Max.9 W
Protection	Separate internal fuse & lightning protection
Demodulator	
Waveform	Signal chip DVB-S (with ETS 300-421)/DSS QPSK Receiver
FEC Decoder	Convolutional Code Rate 1/2, 2/3, 3/4, 5/6 and 7/8
	with Constraint Length K=7
Tuner & Channel	
LNB Input Connector	IEC169-24 Female (F-Type)
LNB Output Connector	
(Loop-through output)	IEC169-24 Female (F-Type)
Frequency Range	950 to 2150 MHz
Input Impedance	75Ω unbalanced
Signal Level	-65 to -25dBM
LNB Control Power & Polarization	13V/8VDC with 22kHz Tone.
	Current: Max. 500mA, Overcurrent Protection
Input Symbol Rate	2-45 MS/s
Convolutional Code Rate	1/2, 2/3, 3/4, 5/6 and 7/8
Video Decoder	
Transport stream	MPEG-2 ISO/IEC 13818
Profile Level	MPEG-2 Main Profile @ Main Level
Input Rate	Max. 15 Mbit/s
Video Formats	4:3, 16:9, Letter box (Default)
Video output	CVBS, RGB, S-Video
Video Resolution	Max. 720 x 576
Audio Decoder	
Audio Decoding	MPEG/MusiCam Layer I & II
Audio Mode	Mono/Dual mono/Stereo/Joint stereo
RF-Modulator (Optional)	
RF In/Out (Loopthrough) Connector	Input: IEC 169-2 Female, Output: IEC 169-2 Male
Frequency	470 to 862MHz
Conditional Access Interface	
Common Interface	None
Smart Card Reader	1 Smart Card Support
Memory	
FLASH Memory	2 Mbytes
Graphics (MPEG) & System Memory	16 Mbytes
EEPROM	8 Kbytes
A/V & Data In/Out	
Video	RGB, CVBS, S-Video
AUDIO R/L	RCA Volume and Mute Control
	(Resolution: 20bits DAC, Max. 2Vrms)
RS-232C	9 PIN D-SUB CON. (Male type)
Front Panel	
Slot	1 Smart Card
Buttons	4 buttons (Stand-by, TV/RADIO, CH-, CH+)
Indicators	3 LEDs (Red: Stand-by, Green: Video, Yellow: Audio)
Display	7-Segment
Rear	
Main Power Cable	Fixed type on the body
Tuner	1 Input with loop-through
RCA	2 SCART/ 1 SPDIF
RF Modulator	1 Input with loop-through
Physical Specification	
Size	260 mm X 50mm X 182mm
Weight	1.2kg
Operation Temperature	0℃ to +45℃
Storage Humidity	5%~95% RH (Non-condensing)
Etc	
Accessories	RCU, User's Manual, 2 Batteries (AA), SCART Cable



※Specifications and functions may be changed for improvement without notice in advance.

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